

**IMAGING SYSTEM AND METHOD FOR
DISPLAYING AND/OR RECORDING UNDISTORTED
WIDE-ANGLE IMAGE DATA**

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ABSTRACT OF THE DISCLOSURE

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An imaging system produces undistorted image data from buffered wide-angle image data without the need for a separate output buffer. Wide-angle image data is transformed, on a pixel-by-pixel basis, as the data for a pixel is required for encoding, to produce output signals in real-time. Predetermined values for functions used in the transformation process are obtained from one or more look-up tables to facilitate transformation.